

**CLAIMS**

1. A method for forming a pressure proof assembly between a component and a house forming an opening between a high pressure and a low pressure side, said method comprising  
5 the steps of:
- arranging the component in the opening,
  - arranging a sealing member between the component and the house, and
  - pressing the sealing member into contact with the  
10 component and the house so that the pressures between the surfaces of the sealing member and the component and between the surfaces of the sealing member and the house exceed the yield point of at least one of the sealing member, the component and the house, so  
15 as to seal between the component and the house.
2. A method according to claim 1, wherein the yield point is exceeded for the sealing member.
3. A method according to claims 1 or 2, wherein the component is an oblong component comprising a set of  
20 electrical terminals.
4. A method according to any of the preceding claims, wherein the component has a polygonal cross-sectional shape.
5. A method according to claim 2, wherein the component  
25 comprises a pressure sensor.

6. A method according to any of claims 2-5, wherein the component is made from a material selected from the group consisting of silicon and glass.
7. A method according to any of the preceding claims,  
5 wherein the sealing member forms a sleeve with an annular body.
8. A method according to claim 7, wherein the sleeve is tubular with an outer and an inner peripheral surface.
9. A method according to claim 8, wherein at least one of  
10 the outer and inner peripheral surfaces is tapered.
10. A method according to any of claims 7-9, wherein the sleeve has a circular cross-sectional shape.
11. A method according to any of claims 7-10, wherein the sleeve is made of a ductile material.
12. A method according to any of claims 8-11, wherein the  
15 sleeve is provided with an adhesive component applied to at least one of the outer and inner peripheral surfaces.
13. A method according to any of claims 7-12, wherein the sleeve is made from a material comprising a metal selected  
20 from the group consisting of tantalum, copper, nickel, indium, niobium and tin.
14. A method according to any of the preceding claims, wherein the opening has a cross sectional area at a first axial end which is larger than a cross sectional area at  
25 an opposite second axial end.

15. A method according to claim 14, wherein the first axial end of the opening is towards the high pressure side of the house.

16. An assembly comprising a house, a pressure sensor  
5 extending through an opening in the house and a sealing member arranged in the opening between the house and the sensor, the sealing member being pressed into engagement with the sensor and the house under a pressure which exceeds the yield point of at least one of the sealing  
10 member and the house.

17. An assembly according to claim 16, wherein the sealing member is made from a material comprising a metal selected from the group consisting of tantalum, copper, nickel, indium, niobium and tin.

**AMENDED CLAIMS**

[received by the International Bureau on 22 October 2004 (22.10.04);  
original claims 1-17 replaced by amended claims 1-14]]

1. A method for forming a pressure proof assembly between a component and a house forming an opening between a high pressure and a low pressure side, said method comprising the steps of:
- 10       - arranging the component in the opening,
  - arranging a sealing member between the component and the house, the sealing member forming a sleeve with an annular body with an outer and an inner peripheral surface wherein at least one of the outer and inner
  - 15       peripheral surfaces is tapered, and
  - pressing the sealing member into contact with the component and the house so that the pressures between the surfaces of the sealing member and the component and between the surfaces of the sealing member and
  - 20       the house exceed the yield point of at least one of the sealing member, the component and the house, so as to seal between the component and the house.
2. A method according to claim 1, wherein the yield point is exceeded for the sealing member.
- 25   3. A method according to claims 1 or 2, wherein the component is an oblong component comprising a set of electrical terminals.

4. A method according to any of the preceding claims,  
wherein the component has a polygonal cross-sectional  
shape.
5. A method according to claim 2, wherein the component  
5 comprises a pressure sensor.
6. A method according to any of claims 2-5, wherein the  
component is made from a material selected from the group  
consisting of silicon and glass.
7. A method according to any of the preceding claims,  
10 wherein the sleeve has a circular cross-sectional shape.
8. A method according to any of the preceding claims,  
wherein the sleeve is made of a ductile material.
9. A method according to any of the preceding claims,  
wherein the sleeve is provided with an adhesive component  
15 applied to at least one of the outer and inner peripheral  
surfaces.
10. A method according to any of the preceding claims,  
wherein the sleeve is made from a material comprising a  
metal selected from the group consisting of tantalum,  
20 copper, nickel, indium, niobium and tin.
11. A method according to any of the preceding claims,  
wherein the opening has a cross sectional area at a first  
axial end which is larger than a cross sectional area at  
an opposite second axial end.

12. A method according to claim 11, wherein the first axial end of the opening is towards the high pressure side of the house.

13. An assembly comprising a house, a pressure sensor  
5 extending through an opening in the house and a sealing member arranged in the opening between the house and the sensor, the sealing member forming a sleeve with an annular body with an outer and an inner peripheral surface wherein at least one of the outer and inner peripheral  
10 surfaces is tapered, the sealing member being pressed into engagement with the sensor and the house under a pressure which exceeds the yield point of at least one of the sealing member and the house.

14. An assembly according to claim 13, wherein the sealing  
15 member is made from a material comprising a metal selected from the group consisting of tantalum, copper, nickel, indium, niobium and tin.